

FIG. 1

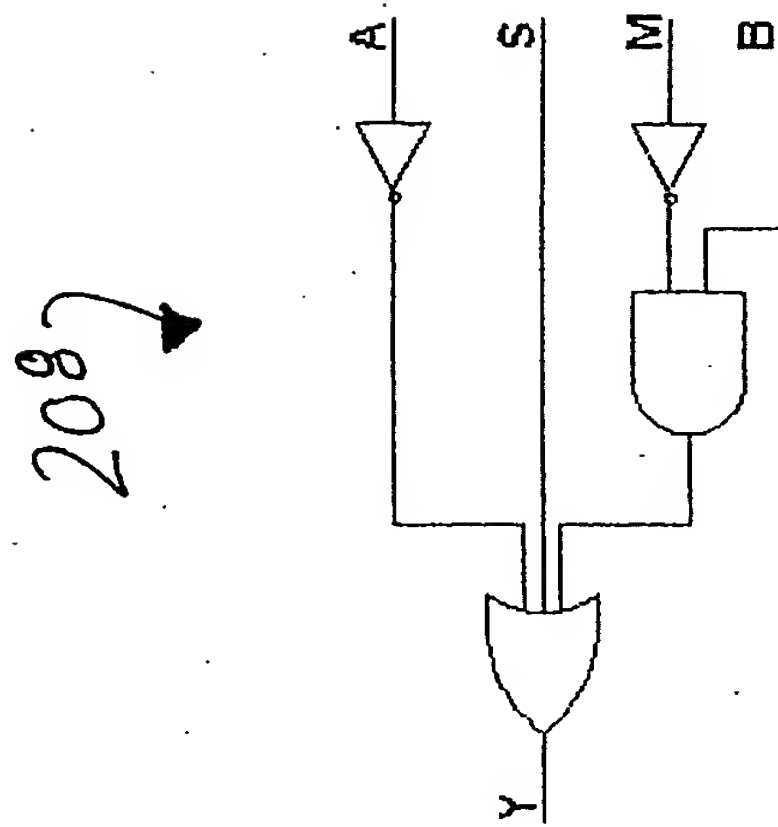


FIG. 2B

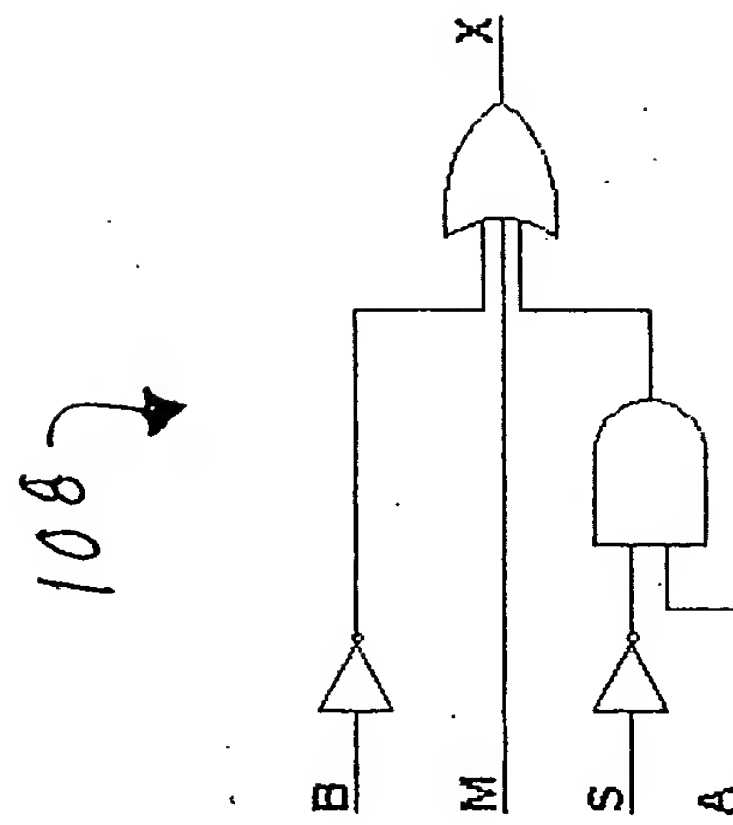


FIG. 2A

MS \ AB		MS			
		00	01	11	10
AB	00	1	1	1	1
	01	0	0	1	1
	11	1	0	1	1
	10	1	1	1	1

$X = B' + AS' + M$

MS \ AB		MS			
		00	01	11	10
AB	00	1	1	1	1
	01	1	1	1	1
	11	1	1	1	0
	10	0	1	1	0

$Y = A' + S + BM'$

FIG. 3

Present State		Inputs		Next State	
A	B	M	S	X	Y
0	0	0	0	1	1
0	0	0	1	1	1
0	0	1	1	1	1
0	0	1	0	1	1
0	1	0	0	0	1
0	1	0	1	0	1
0	1	1	1	1	1
0	1	1	0	1	1
1	1	0	0	1	1
1	1	0	1	0	1
1	1	1	1	1	1
1	1	1	0	1	1
1	0	0	0	1	0
1	0	0	1	1	1
1	0	1	1	1	1
1	0	1	0	1	0

FIG. 4

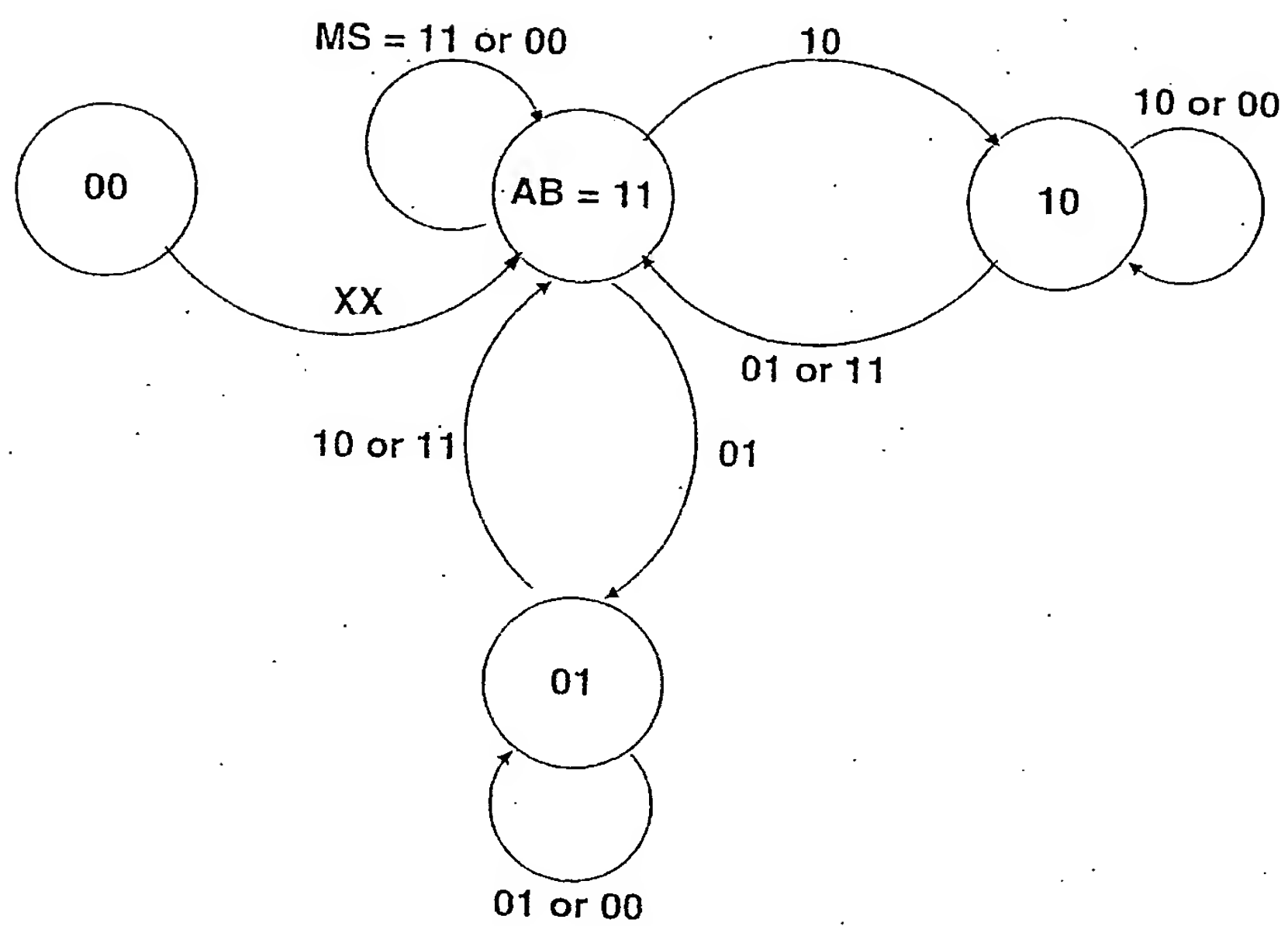


FIG. 5

Time	Event	Result	Transition Tested
0s	Start	Clock running. Inputs Undefined.	
52ns	Master drives HIGH	Slave follows HIGH on next clock pulse; State Transitions to AB = '11'	b
102ns	Master drives LOW	Slave follows LOW on next clock pulse; State Transitions to AB = '01'	e
152ns	Master drives HIGH	Slave follows HIGH on next clock pulse; State Transitions to AB = '11'	f
176ns	Master releases.	State remains at AB = '11'	
202ns	Slave drives LOW	Master follows LOW on next clock pulse; State Transitions to AB = '10'	b
252ns	Slave drives HIGH	Master follows HIGH on next clock pulse; State Transitions to AB = '11'	d
302ns	Master AND Slave drive LOW	State remains at AB = '11'	a
352ns	Master AND Slave drive HIGH	State remains at AB = '11'	a
375ns	Slave releases.	State remains at AB = '11'	
402ns	Master drives LOW	Slave follows LOW on next clock pulse; State Transitions to AB = '01'	e
452ns	Slave drives HIGH	State remains at AB = '01'	g
476ns	Slave releases.	Slave follows LOW on next clock pulse; State remains AB = '01'	g
652ns	Master AND Slave drive HIGH	State Transitions to AB = '11'	f
825ns	Master releases.	State remains at AB = '11'	
832ns	Slave drives LOW	Master follows LOW on next clock pulse; State Transitions to AB = '10'	b
702ns	Master drives HIGH	State remains at AB = '10'	c
726ns	Master releases.	Master follows LOW on next clock pulse; State Remains AB = '10'	c
802ns	Master AND Slave drive HIGH	State Transitions to AB = '11'	d

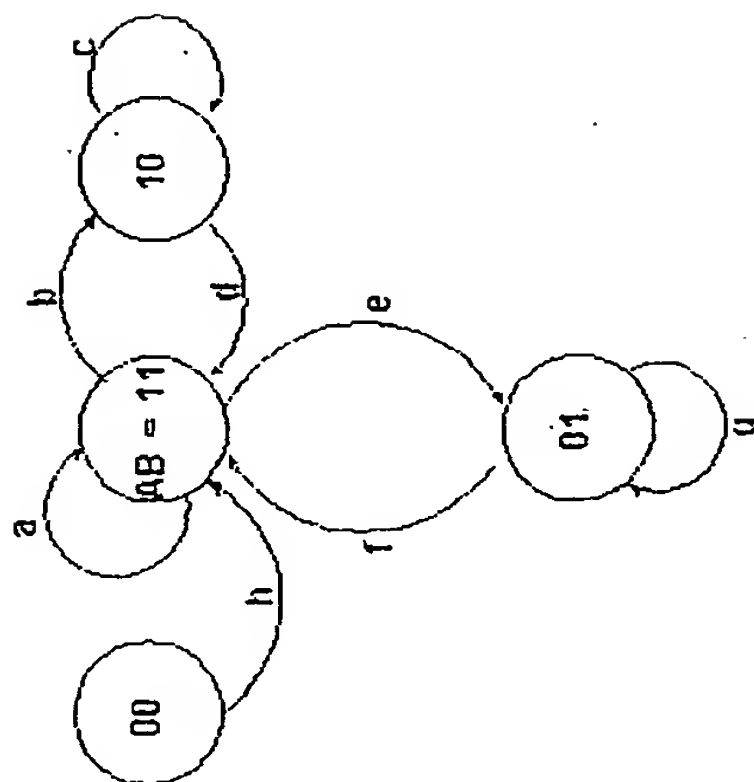


FIG. 6

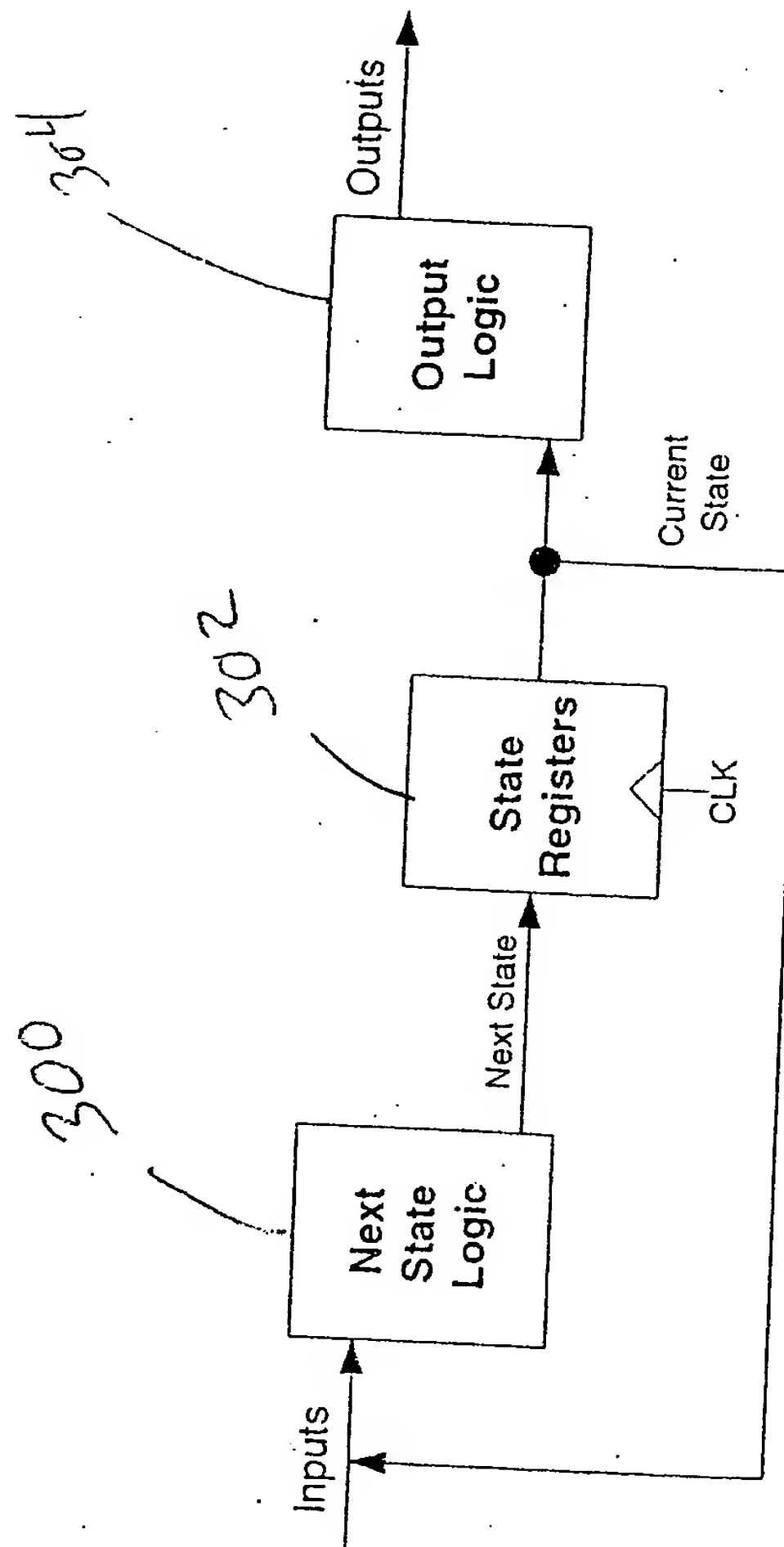


FIG. 7